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Genetic Diversity, Germplasm Resources and Biotechnology Application for Sustained Fruit Improvement

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Message from the Guest Editors

Germplasm resources and the genetic diversity contained therein are the material basis for the selection and breeding of good plant cultivars. Fruit tree germplasm resources refer to plants with certain genetic material, which are valuable for fruit tree production and breeding, including wild species, closely related wild species, varieties, cultivated species, semi cultivated species, cultivars, strains and individual plants, etc., also including rootstocks for grafting and virus indicator plants for fruit trees. The abundant germplasm resources and genetic diversity provide the potential to continuously breed excellent new cultivars with high yield, good quality, multi-resistance, and adaptability to processing or mechanized production, so that fruit plants can better meet the needs of human development. Fruit trees are mostly perennial crops with a long juvenile phase, complex genetic background (highly heterozygous), and with a conventional breeding cycle which is long, workload which is large, and efficiency which is low.



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Message from the Editor-in-Chief

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